

FIG.1

1 CS-D10 (1) QAVLTQ-PSSVSGAPGQRVTISC TGGSSNIGAGYDVH WYQQIPGTAPKLL (SEQ ID NO: 23)	
CS-E11 (1) QAVLTQ-PSSVSGAPGQRVTISC TGDRSNIGATYDVH WYQQLPGRAPKLL (SEQ ID NO: 20)	
CS-A10 (1) QSVLTQ-PPSVSVSPGQTATITC <b>SGDNLGDKS-VS</b> WYQQKAGQSPVLV (SEQ ID NO: 26)	
CS-D7 (1) EIVMTQSPATLSVSPGERATLSC RASQYVSDNLA WYQQKPGQAPRLL (SEQ ID NO: 17)	
BMV-C2 (1) QSVLTQ-PPSVSAAPGQKVTISC SGSTSNIGNNY-VS WYQQHPGKAPKLM (SEQ ID NO: 32)	
BMV-D4 BMV-E6 BMV-H11  (1) QSVLTQ-PASVSGSPGQSITISC TGTSSDVGGYNYVS WYQQHPGKAPKLM (1) QSVLTQ-PASVSGSPGQSITISC TGTSSDVGGYNYVS WYQQHPGKAPKLM (1) QSVLTQ-PASVSGSPGQSITISC TGTSSDVGGYNYVS WYQQHPGKAPKLM (SEQ ID NO: 29)	
51 CDR2 CS-D10 (50) IY GNSNRPS GVPDRFSGSK SGTSASLAITGLQAEDEADYYC QSYDSSLNG (SEQ ID NO: 24) (SEQ ID NO:	103 P <b>VV</b> 25)
CS-E11 (50) IY <b>GNHNRPS</b> GVPERFSGSK SGSSASLAIAGLQAEDEADYYC <b>QSYDSGLSG</b> (SEQ ID NO: 21)	-YV 22)
CS-A10 (47) MS QGSKRPL GIPDRISGSN SGTTATLTISGVQTVDEADFYC QTWDRYTGV (SEQ ID NO: 27) (SEQ ID NO:	<b>V</b> .28)
CS-D7 (48) IY <b>GASTRAT</b> GVPARFSGSG SGTEFTLTISSLQSEDFAVYYC <b>QQYNNWRPV</b> (SEQ ID NO: 18) (SEQ ID NO:	T 19)
BMV-C2 (49) IY <b>DVSKRPS</b> GVPDRFSGSK SGNSASLDISGLQSEDEADYYC <b>AAWDDSLSE</b> (SEQ ID NO: 33)	-FL 34)
BMV-D4 (50) IY EGSKRPS GVSNRFSGSK SGNTASLTISGLQAEDEADYYC SSYTTRSTR (50) IY EGSKRPS GVSNRFSGSK SGNTASLTISGLQAEDEADYYC SSYTTRSTR (50) IY EGSKRPS GVSNRFSGSK SGNTASLTISGLQAEDEADYYC SSYTTRSTR (SEQ ID NO: 30) (SEQ ID NO:	V V
104 114 CS-D10 (103) FGGGTKVTVLG (SEQ ID NO: 5) CS-E11 (102) FGTGTKVTVLG (SEQ ID NO: 3) CS-A10 (98) FGGGTKVTVLG (SEQ ID NO: 7) CS-D7 (99) FGQGTRLEIK- (aa 1-108 of SEQ ID NO: 1)	
BMV-C2 (101) FGTGTKLTVLG (SEQ ID NO: 15) BMV-D4 (101) FGGGTKLTVLG (SEQ ID NO: 13) BMV-E6 (101) FGGGTKLTVLG (SEQ ID NO: 11) BMV-H11 (101) FGGGTKLTVLG (SEQ ID NO: 9)  FIG. 2	

BMV-C2 BMV-E6 BMV-D4 BMV-H11	1 CDR1 50 (1) EVQLQESGPGLVKPSETLSLTCTVS GGSISSSSYYWG WIRQPPGKGLEWI (I) QVQLQESGPGLVKPSETLSLTCTVS GGSISSSSYYWG WIRQPPGKGLEWI (1) QVQLQESGPGLVKPSETLSLTCTVS GGSISSSSYYWG WIRQPPGKGLEWI (1) RVQLQESGPGLVKPSETLSLICTVS GGSISSSSYYWG WIRQPPGKGLEWI (SEQ ID NO: 40)
CS-D10 CS-D7 CS-A10 CS-E11	(1) QVQLQESGPGLVKPSETLSLTCTVS GGSIRSSSYYWG WFRQTPGKGLEWL (1) QVQLQESGPGLVKPSETLSLTCTVS GGSIRSSSYYWG WFRQTPGKGLEWL (1) RVQLQGSGPGLVKPSGTLSLTCTVS GGSIRSSSYYWG WFRQTPGKGLEWL (1) QVQLQESGPGLVKPSETLSLTCTVS GGSIRSSSYYWG WFRQTPGKGLEWL (SEQ ID NO: 35)
BMV-C2 BMV-E6	51 CDR2 (51) G NMFYSGSAYYNPSLKS RVSISVGPSSNQFSLKLTSVTAADTAVYYCAR (51) G NMFYSGSAYYNPSLKS RVSISVGPSSNQFSLKLTSVTAADTAVYYCAR (SEQ ID NO: 43)
BMV-D4	(51) G NMFYSGGAYYNPSLKN RVSISVGPSSNQFSLKLSSVTAADTAVYYCAR (SEQ ID NO: 44)
BMV-H11	(51) G NMFYSGGAYYNPSLKS RVSISVGPSSNQFSLKLSSVTAADTAVYYCAR (SEQ ID NO: 41)
CS-D10	(51) G NVFFSGSAYYNPSLKS RVTISIDTSENQSSLKLTSVTAADTAVYYCAR (SEQ ID NO: 38)
CS-D7	(51) G NVFFSGSAYYNPSLKN RVTISIDTSENQSSLKLTSVTAADTAVYYCAR (SEQ ID NO: 36)
CS-A10	(51) G NVFFSGSAYYNPSLKG RVTISIDTSENQSSLKLTSVTAADTAVYYCAR (SEQ ID NO: 39)
CS-E11	(51) G NVFFSGSAYYNPSLKN RVTISIDTSENQSSLKLTSVTAADTAVYYCAR (SEQ ID NO: 36)
BMV-C2 BMV-E6	100 CDR3 128 (101) PLGHNFDSSGQGEGAFEI WGQGTLVTVSS (SEQ ID NO: 16) (101) PLGHNFDSSGQGEGAFEI WGRGTLVTVSS (SEQ ID NO: 12) (SEQ ID NO: 45)
BMV-D4 BMV-H11	(101) PLGYNFDSSGQGKSAFEI WGKGTMVTVSS (SEQ ID NO: 14) (101) PLGYNFDSSGQGKSAFEI WGQGTLVTVSS (SEQ ID NO: 10) (SEQ ID NO: 42)
CS-D10 CS-D7 CS-A10 CS-E11	(101) PQAYSHDSSGHSPFDL WGRGTMVTVSS (SEQ ID NO: 6) (101) PQAYSHDSSGHSPFDL WGRGTLVTVSS (aa 1-126 of SEQ ID NO:2) (101) PQAYSHDSSGHSPFDL WGQGTLVTVSS (SEQ ID NO: 8) (101) PQAYSHDSSGHSPFDL WGQGTLVTVSS (SEQ ID NO: 4) (SEQ ID NO: 37)

FIG. 3

CS-D7 mAb IN OPA

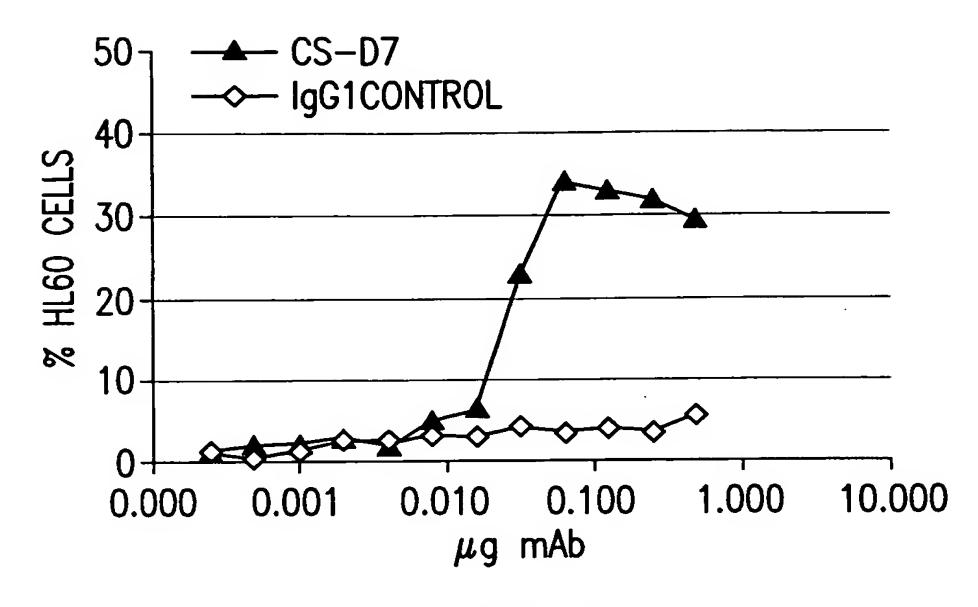
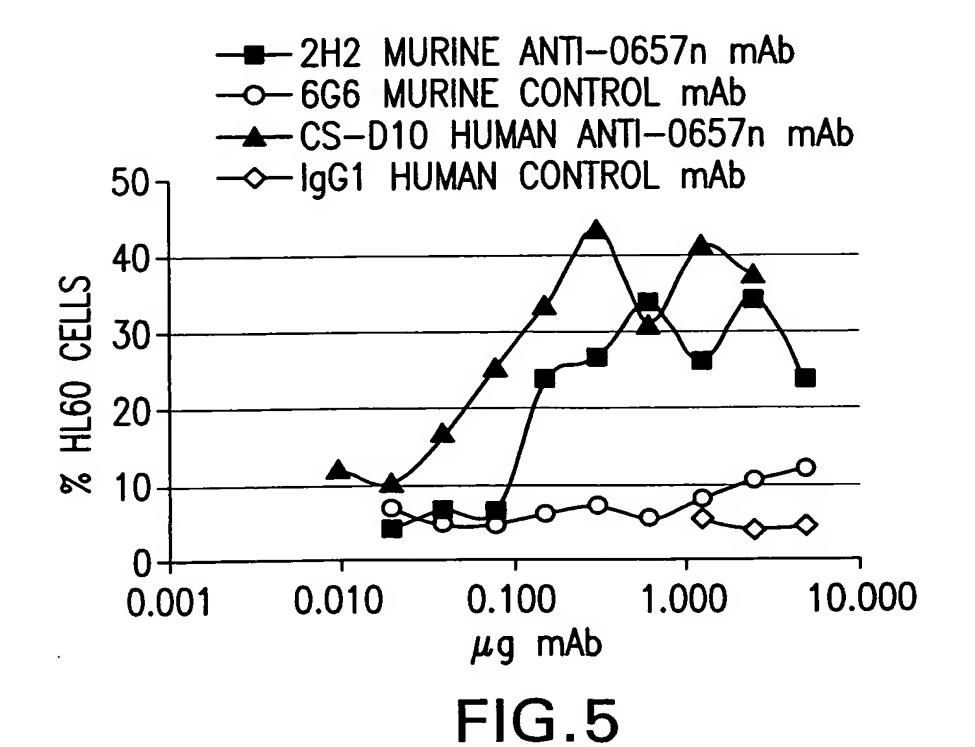


FIG.4

## 0657n mAbs IN OPA



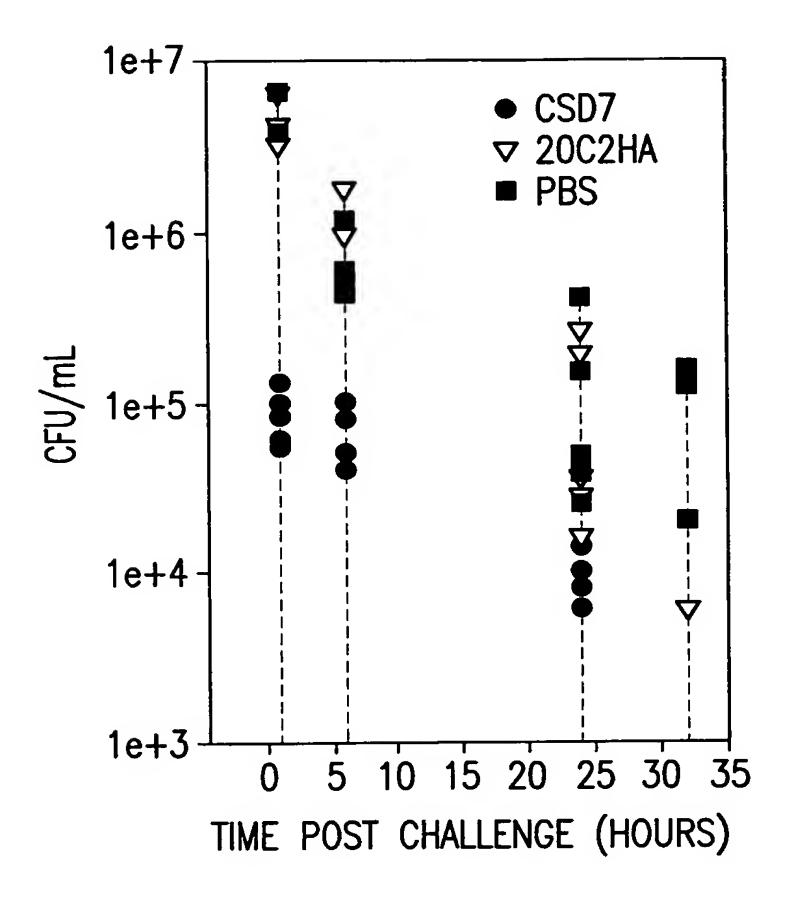


FIG.6